

Separation Hood for a Cotton Harvester

Abstract of the Disclosure

A hood receives a stream of material including a mix of cotton, air and debris from an air delivery system on a cotton harvester. A forward deflector directs the mixture towards the rear of an accumulator. The deflected mixture passes under finger grates which retains cotton but allows some of the air and light trash to pass through out of the stream. A curved rear deflector forces the remaining mix downwardly towards the accumulator and prevents build-up on receptacle walls. Air and light debris change direction abruptly at the bottom of the rear deflector and exit through an inlet area and upwardly directed path at the back of the deflector. The momentum of the heavier cotton prevents cotton from making the tight turn around the bottom of the deflector and directs the cotton towards the receptacle or accumulator. The inlet area can be adjusted or closed completely to prevent cotton loss in certain conditions.